



PO No	Supplier	Line Item No	Ref No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total
PO039109	THY001-VC	2	1	Net 30	MT-BRONZE-C63000-R2.500	Bronze C63000 Round Bar 2.500" : MAT'L AS PER BRONZE C63000 AS PER ANS 4640 OR ASME SB150 OR ASTM B150 OR SAE J461 OR SAE J463				1	3/9/2018	1	S049548	Stock	3/9/2018	\$ 263.89 / ft	0	\$263.89		
Total:										1		1								\$204

Plex 3/9/2018 9:13 AM Dart.Dubois.Pascal



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO039109

E-MAILED
FEB 23 2018

Supplier:	THY001-VC Thyssenkrupp Materials CA Ltd O/A VPK Metal- c/o T27540 PO Box 4275, Postal "A" Toronto ON M5W 5V8 Canada Phone: 905 669 9444 Fax: 905 738 9033	PO No: PO039109 PO Date: 2/23/18 Due Date: 3/5/18 Purchase Order Revision: Revision Date: Ship-To Contact: Lavoie, Chantal Phone: clavoie@dartaero.com Via: Ground Pymt Terms: Net 30 Freight Terms: Special Comments: quote no. 1203015268
Ship To:	1270 Aberdeen Street Hawkesbury ON K6A 1K7 Canada Phone: 613-632-5200	

Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	MT-BRONZE-C63000-R2.000	1 ft lenght	Bronze C63000 Round Bar 2.000 : MAT'L AS PER BRONZE C63000 AS PER ANS 4640 OR ASME SB150 OR ASTM B150 OR SAE J461 OR SAE J463	Firmed	3/5/18	1 ft	0 ft	1 ft	\$200.78/ft	\$200.78
2	MT-BRONZE-C63000-R2.500	1 ft lenght	Bronze C63000 Round Bar 2.500" : MAT'L AS PER BRONZE C63000 AS PER ANS 4640 OR ASME SB150 OR ASTM B150 OR SAE J461 OR SAE J463	Firmed	3/5/18	1 ft	0 ft	1 ft	\$263.89/ft	\$263.89
Grand Total: \$464.67										

Order Notes

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 2/23/18 2:13 PM dart.lavoie.chantal

thyssenkrupp Materials NA, 2821 Langstaff Road, Concord, ON L4K 5C6

DELIVERY NOTE



DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7

DATE: 03/09/2018
DOC. NO: 2405800687*
BOL. NO: 2405800687
ORDER NO: 1403541295
YOUR P/O: 039109
CUSTOMER NO: 10058125
Route: 303UA
CONTACT: Stan Ivers
TEL: 905-532-1350 ext 21350
FAX: 905-738-9033 ext 9033
EMAIL: STAN.IVERS@THYSSENKRUPP.COM

** PLEASE SHIP DIRECT USE PUOLATOR PP ****
MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
** REFERENCED ON IT **

** PLEASE SHIP DIRECT USE PUOLATOR PP ****

Deliveries are carried out for your account and risk acc. to our Gen. Terms & Cond. of Delivery and Payment.

ITEM	DESCRIPTION	NET QTY1 / QTY2	PACKAGE NO
0010	CURD00449 Aluminum Bronze C63000 HR50 (drawn & stress relieved) Round 2.5000 (+-.005) X 12 " RBW Cutting - Standard 12 Cut To Length 12.0000 " 1 Actual Chemistry/Act. Physical Standard Packaging	1 PC 17 lb	1008357267
	TAGNUM PCS	QTY 1013590460 1	UOM VEND PC
			VENDPO BOLTON AE 0000261964
			HLOT L25165
	SAE AMS 4640 H;ROHS COMPLIANT;ASTM B 150/B 150M 2012	1	
		Total Gross Weight	19.000 lb

All items, not declared as partial delivery, are final quantities.

Delivery Terms: PPD gem. Incoterms 2000 Prepaid PREPAID

thyssenkrupp Materials NA, 2821 Langstaff Road, Concord, ON L4K 5C6

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DART AEROSPACE LTD
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EMAIL: STAN.IVERS@THYSSENKRUPP.COM

CERTIFICAT DE CONFORMITÉ/CERTIFICATE OF COMPLIANCE

*thyssenkrupp Matériaux NA certifie que le matériel décrit ci-dessus est conforme aux dessins ou spécifications exigés sur le bon de commande et qui sont en vigueur à la date ou la commande a été acceptée./ thyssenkrupp Materials NA certifies that the material described above is in accordance with the drawings or specifications called for on said order that are current on the date order was accepted.

*Nous certifions que le document reproduit ici est une copie conforme du rapport fourni par le fournisseur du matériel où les données résultent de l'analyse faite par un laboratoire qualifié/ We certify that the document reproduced here is true to the report provided by the equipment supplier where the data are the result of analysis by a qualified laboratory.

David Noordine - Director of Quality Assurance



ISO 9001 2008
AS 9100 Rev.C
LRQ. 0902066

BOLTON AEROSPACE LIMITED

TEST CERTIFICATE
EN 10204:2004 3.1

CUSTOMER SHIPPED TO: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD ONTARIO L4K 5C6	TEST CERTIFICATE NO.	L25165	Rev 0
	BATCH NO. (LOT NO.)	L25165	
	WORKS ORDER NO.	S33737	
	ALLOY	CA18	
	QUANTITY ORDERED	884 kg	
SPECIFICATION ASTM B150-08 C63000 HR50 QQ-C-455B AMD1 83 C63000 AMS 4640 G/H	WEIGHT DESPATCHED	871 kg	
	CUSTOMER ORDER NO.	PEC-261964	
	DESCRIPTION	NICKEL ALUMINIUM BRONZE ROUND ROD	
	2.500" X 144.000" LENGTH		

MECHANICAL/PHYSICAL PROPERTIES

Tensile Specification	Dia	Area	0.5 % Yield	U.T.S.	Elongation 4D	Hardness
ASTM E8	mm	mm ²	PSI	PSI	%	HB 10/3000
	12.50	122	70.9	119.0	18	241
	12.51	122	71.5	118.0	17	241

CHEMICAL COMPOSITION %

Cu+ Ag	Zn	Fe	Mn	Al	Ni	Sn	Pb	Si	Ni+Co
BAL	0.17	3.72	0.36	9.94	4.73	0.02	0.01	0.08	4.73
BAL	0.14	3.72	0.36	9.83	4.65	0.01	0.01	0.06	4.65

"The products to which this declaration relates conform to the conditions and requirements of the purchaser and to the description, quantity and specification stated".

"These products have been produced under a certified quality system. The test results have been determined by an assessed or accredited laboratory"

REMARKS

MERCUROUS NITRATE TEST SATISFACTORY
COUNTRY OF MELT & MANUFACTURE IS U.K
NO WELD REPAIRS

We certify that material is free from mercury contamination.

Signed for and on behalf of
BOLTON AEROSPACE LIMITED

Chief Inspector

M HUDSON

Date.....

Friday, 12 December 2014

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-Bronze-C63000-R2.500 PO / BATCH NO.: 0239108/5049548
 DATE: MAR 09 2018

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 1
 QUANTITY INSPECTED: 1
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 2.500
 THICKNESS RECEIVED: 2.500
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	N	
CORRECT FINISH	Y	N	
CORROSION	Y	N	
CORRECT GRAIN DIRECTION	Y	N	
CORRECT MATERIAL PER M-DRAWING	Y	N	<i>Astm B150</i>
CORRECT THICKNESS	Y	N	
PHOTO REQUIRED	Y	N	
CORRECT REF # TO LINK CERT	Y	N	<i>Hard# L25165</i>
CORRECT MATERIAL IDENTIFICATION	Y	N	
CORRECT M# ON THE MATERIAL	Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY:	<u>DAS 11</u>	SIGNED OFF BY:	
DATE:	<u>9-89 MAR 09 2018</u>	DATE:	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL:

SPECIFICATION:

PART NUMBER:

BRONZE C63000

AMS 4640 OR ASME SB150 OR ASTM B150 OR SAE J461 OR SAE J463
MT-BRONZE-C63000-R-[D.DDD]

WHERE D.DDD IS DIAMETER IN INCHES

EXAMPLE:

1/4" ROUND BRONZE C63000 = MT-BRONZE-C63000-R-0.250

D

C

B

A

C

B

A

REV	DESCRIPTION	ECN #	DATE	BY	APPROVED
A	NEW ISSUE	17-787	17.12.12	VM	ML

DART AEROSPACE		Waterloo, Ontario, Canada
TITLE: BRONZE C63000 ROUND BAR		
PART NO.	MT-BRONZE-C63000-R	REV A
TOOL NO.		
UNLESS OTHERWISE SPECIFIED: INTERFACES PER MIL-STD-883B DIMENSIONS APPLY AFTER FINISHING		
INITIALS AND DATE	VM 17/12/12	
DESIGNED BY:	VM 17/12/2017	TOLERANCES:
DRAWN BY:	VM 12/12/2017	0.025 ± 0.015
CHECKED BY:	ML 12/12/2017	0.025 ± 0.015
MFG REVIEW BY:	DF 12/12/2017	0.025 ± 0.015
APPROVED BY:	ML 12/12/2017	SCALE: MTS. 1 SHEET 1 OF 1
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